

METHODS AND SYSTEMS FOR PROCESSING MICROFLUIDIC SAMPLES OF
PARTICLE CONTAINING FLUIDS

ABSTRACT

The present invention relates to a microfluidic system for processing a cell-
5 containing liquid. The system includes a microfabricated substrate having an enrichment
channel to prepare an enriched cell sample from the cell-containing liquid. A flow through
member is in liquid communication with the enrichment zone. The flow through member
substantially prevents cells of the cell-containing fluid from exiting the enrichment zone
while allowing liquid of the cell-containing liquid to exit the enrichment zone. A gas actuator
10 associated with the enrichment zone provides a gas pressure sufficient to move the enriched
cell sample from the enrichment zone.

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